



Advancing Adoption of Interoperable Wireless Solutions

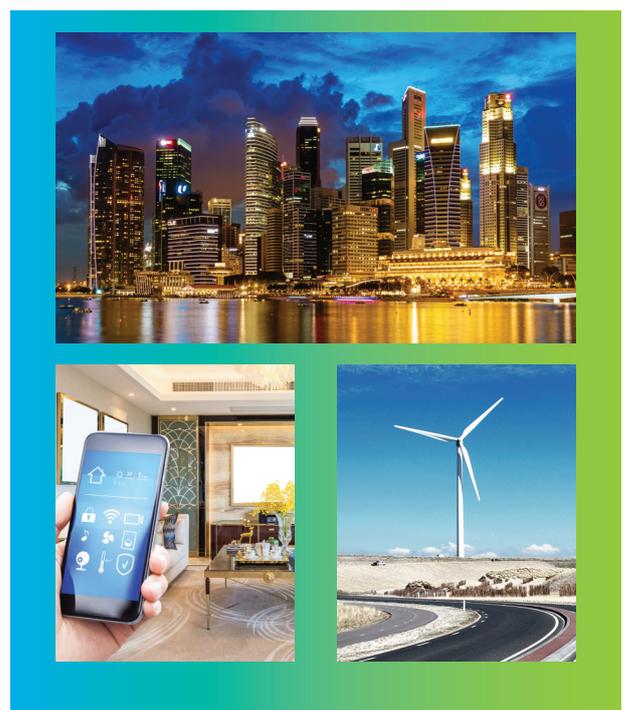
The Wi-SUN Alliance seeks to accelerate the implementation of smart grids, smart cities, smart utilities and large-scale outdoor IoT applications by enabling the global adoption of interoperable solutions based on open standards.

It creates communications layer specifications based on open standards from organizations such as IEEE802, IETF, TIA, TTC and ETSI and develops a robust testing and certification program guaranteeing that products that implement the Wi-SUN specification interoperate. There are over 80 certified products worldwide.

Wi-SUN specifications bring Smart Ubiquitous Networks to service providers, utilities, municipalities/local government and other enterprises, by enabling interoperable, multi-service and secure wireless mesh networks. Wi-SUN can be used for large-scale outdoor IoT wireless communication networks in a wide range of applications, including:

The Wi-SUN Alliance FAN Profile includes the following features:

- **Smart grid** – e.g. advanced metering infrastructure, Peak Load Management, control of power distribution, alternative energy, e.g. control of solar and wind farms
- **Smart cities** – e.g. street lighting, dynamic control of traffic lights, smart parking
- **Structural health monitoring** – e.g. monitoring of the integrity of bridges, buildings, etc.
- **Agriculture** – e.g. monitoring humidity and temperatures in greenhouses.



Membership

With more than 170 member companies, membership is growing year on year. Represented worldwide, including the US, India, Singapore, Japan and Europe, membership includes silicon and product vendors, services providers, utilities, universities and municipalities. All members benefit from the experience and expertise of their peers who have deployed more than 40 million nodes over the past decade.

Product vendors in particular benefit from using Wi-SUN profiles derived from open standards, as well as access to a global market and from a certification program that adds value to their products – the logo is fast becoming a recognized brand. A product with a Wi-SUN Certified logo gives the marketplace confidence that products can work together in an interoperable, multi-vendor network.

Key strengths:

- **Security** – is a core concern for any network as compromised devices can be used to mount attacks on other networks, resulting in costly technology replacements or, worse, disrupt essential services or public safety as would be the case for critical IoT networks. Enterprise-grade security is the gold standard among IoT networks. Only Wi-SUN-based networks have achieved military-grade security, which is the equivalent to that used by banks. Wi-SUN networks also support over the air upgrades, which are essential for providing security patches and longevity for the network.
- **Scalability** – Wi-SUN-based mesh networks have proven themselves across a range of challenging and remote environments around the world. Tens of millions of reliably connected endpoints demonstrate that a Wi-SUN based IoT mesh network can achieve the ubiquity and scalability many IoT customers demand.
- **Resilience** – Wi-SUN networks offer resilience against faults and interference. For example, it is extremely difficult to disrupt a Wi-SUN network, e.g. through a denial of service attack.
- **Adaptability** – Wi-SUN adapts to the landscape and environment as it evolves, so a Wi-SUN network will re-route around a high-rise building or optimize routes for data transmission.

Join Us

Companies can join the Wi-SUN Alliance to gain access to the Wi-SUN specifications. More information on our membership benefits and the fee structure can be found at <http://www.wi-sun.org> or by emailing us at info@wi-sun.org.



For More Information:

Find us at www.wi-sun.org or contact us at info@wi-sun.org